



U.S. LHC Software and Computing



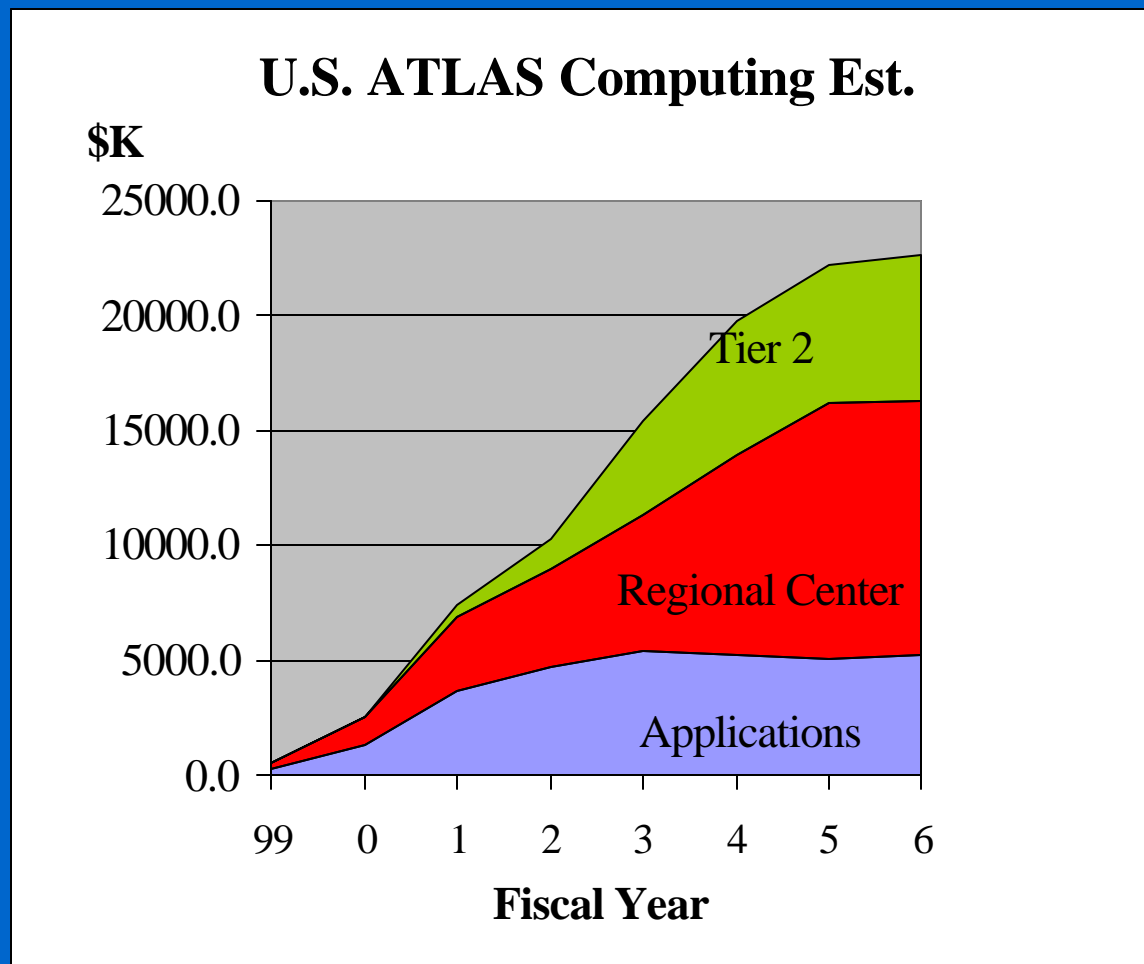
Glen Crawford
DOE/NSF LHC Program Office
HEPAP Meeting 18 July 2000

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The Road to S+C Projects: Where are we?

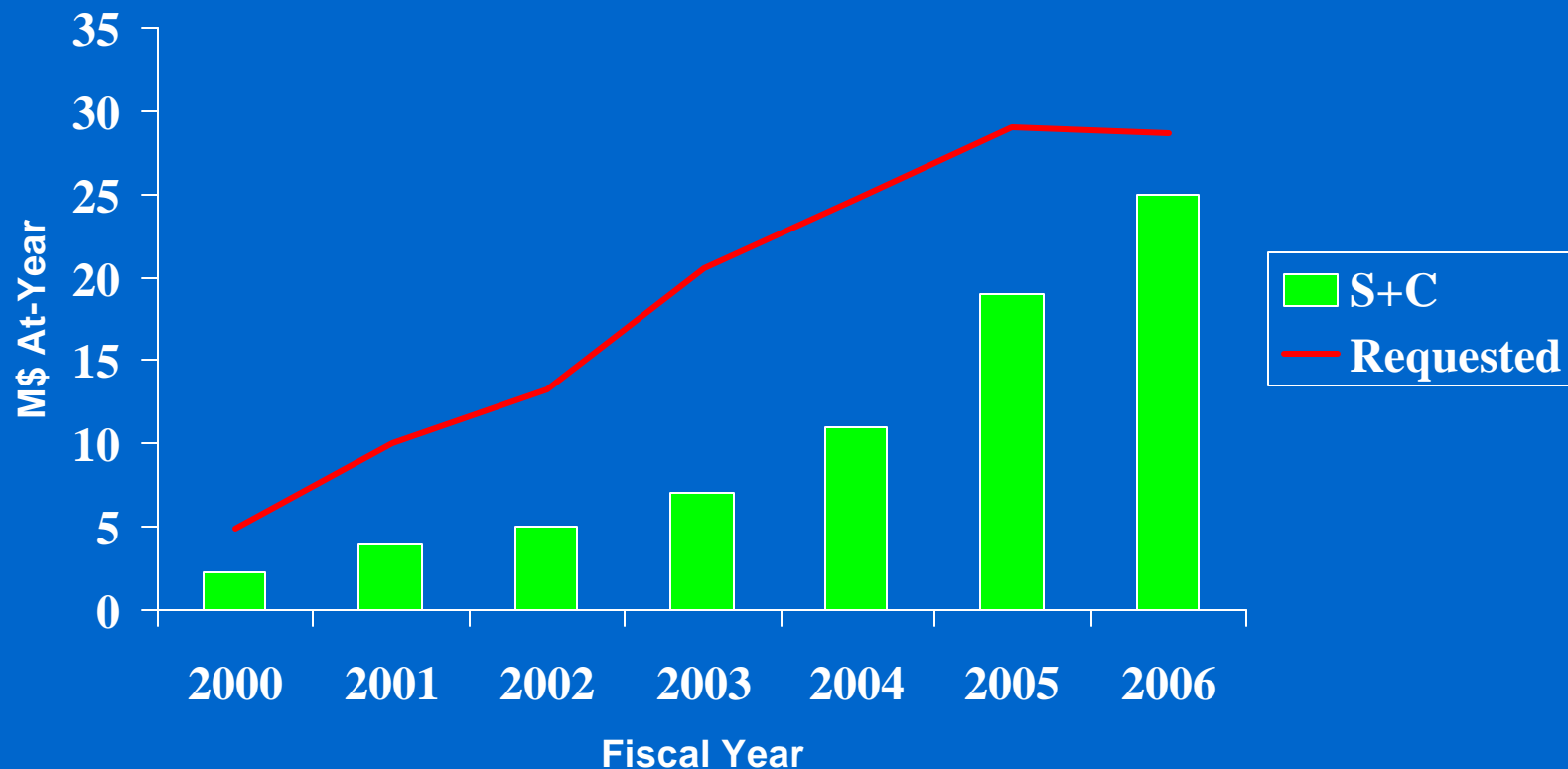
- ✓ Peer Review of S+C Projects (Jan 18-20); both US collaborations present project funding requests
 - ✓ DOE/NSF final FY00 allocations (~Spring)
 - ✓ US LHC S+C requests presented to HEPAP
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- US CMS appoints S+C Project Manager
 - CERN LHC Computing Review underway
 - DOE/NSF approve reference funding profiles

US ATLAS S+C Funding Profile (Proposed)

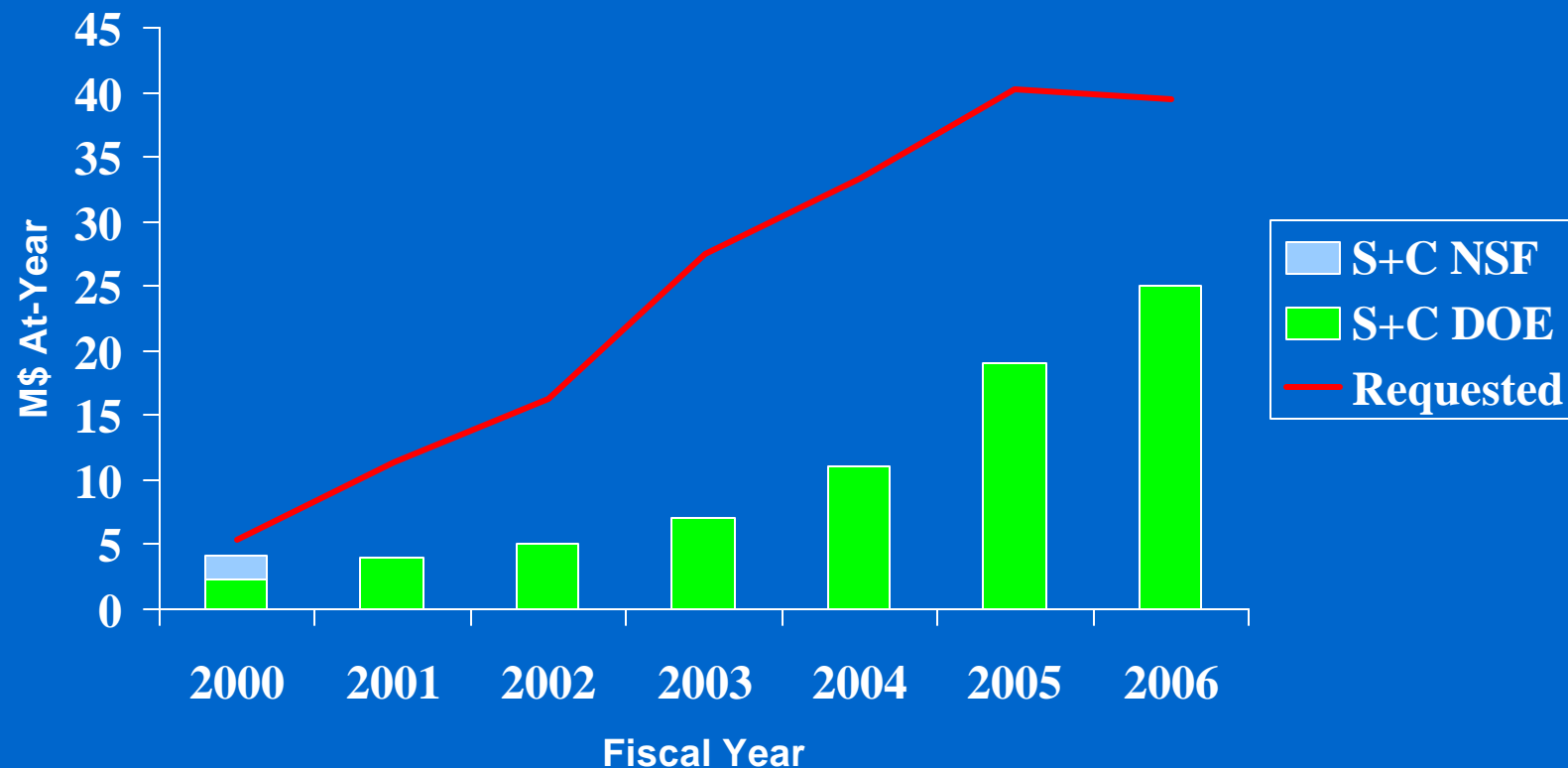


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US LHC Software + Computing Funding Profiles (No Tier 2, DOE Funding Only)



US LHC Software + Computing Funding Profiles (Including Tier 2)



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Funding Profile Assumptions I

Funding profile includes:

- “Tier 1” R&D, hardware, staff, M&O
- Software professionals to create/maintain core software and integrate physics software
- Contributions from lab base programs
- Escalation and “contingency”/reserve

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Funding Profile Assumptions II

Funding profile *does not* include:

- Networking (US-to-CERN and T1-to-T2)
- Support for physicists writing software
- Any \$\$ for “Tier 2” [assumed to be NSF]
- CERN “assessments” for LHC computing
- Knowledge of actual appropriations

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The Road to S+C Projects: What's Next

→ DOE/NSF approve reference funding profiles

→ Commence quarterly S+C status reviews:

CMS June 29 @ DOE; ATLAS July 24 @ BNL

→ Decision on NSF ITR proposal (Summer 00)

→ S+C Project Baseline Review (Nov 00)

→ S+C Project Baselines approved (Dec 00)

Goal: Full S+C Project management and
baselines in place by start of 2001.

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The Road Ahead

DOE/NSF Peer Review of US LHC S+C Projects

- November 14-17, 2000 @ BNL
- Full technical, cost, schedule + mgmt review
- Will establish (near-term) Project baselines
- Will impact funding decisions for FY01/02
- Similar to US LHC Construction Project reviews
- Charged by JOG (May 00); assembling reviewers

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Summary

- ◆ Agencies have provided funding guidance to US LHC S+C projects
- ◆ Regular review/reporting cycle underway

Issues:

- ◆ “Scaling” to CERN resource estimates?
- ◆ Impact of funding profiles on project plans